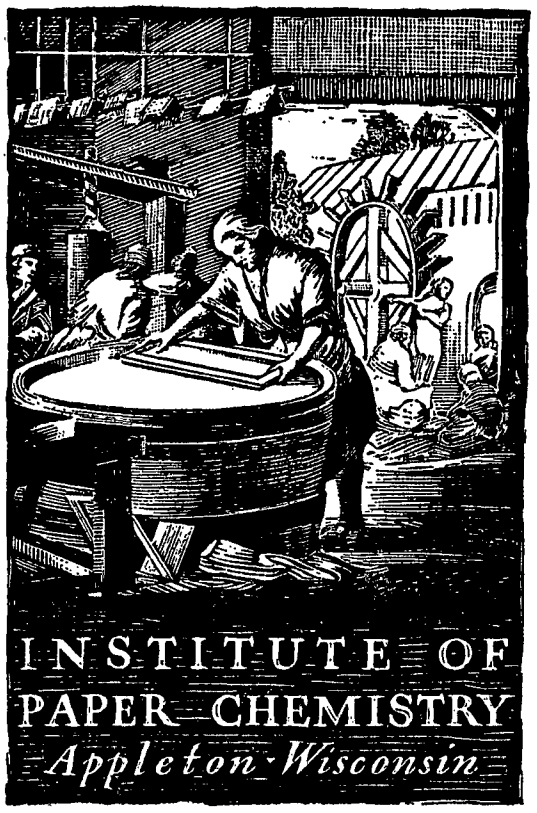


CONTINUOUS BASELINE STUDY

Project 1108-13

Progress Report 101

to

FOURDRINIER KRAFT BOARD INSTITUTE, INC.

December 1, 1955

THE INSTITUTE OF PAPER CHEMISTRY

APPLETON, WISCONSIN

CONTINUOUS BASELINE STUDY

Project 1108-13

Progress Report 101

to

Fourdrinier Kraft Board Institute, Inc.

December 1, 1955

$$\frac{\text{current F.K.I. average}}{\text{cumulative F.K.I. average}} \times 100 = \text{F.K.I. index (\%)}$$

The F.K.I. index provides a ready means of comparing the current quality with previous results. For example, the current F.K.I. average basis weight is 43.0 lb. The cumulative F.K.I. average basis weight is also 43.0 lb. Hence, the index for basis weight determined in per cent as indicated above is 100.0. This signifies that the current average basis weight is the same as the cumulative average, which in this case covered the period from November 1, 1954, through October 31, 1955.

A comparison of the results in Table II and Figure 1 shows that the average basis weight results for all mills except F conform to the 42-lb. specification set forth in Rule 41. Mill K has the highest average basis weight, it being 44.3 lb. or approximately 5.5% higher than the 42-lb. specification. On the other hand, Mill F has the lowest average basis weight, it being 41.2 lb., 1.9% lower than the 42-lb. specification.

The amount by which the mills vary from the 42-lb. specification is as follows:

Mill Code	Per cent
A	+4.8
B	+4.3
C	+1.2
D	+3.3
E	+2.9
F	-1.9
G	+4.3
H	+1.7
I	+2.9
J	+1.9
K	+5.5
L	+2.6
M	+3.1
N	+0.7
O	+1.2
P	+2.1
Q	+0.7

A comparison of the average basis weight data for the previous period with the current F.K.I. average indicates that the basis weight results have remained the same.

A comparison of the average caliper values for the various mills (see Figure 2) shows that the mill averages vary from a low of 11.6 for Mill F to a high

of 14.2 for Mill E, the average being 12.7 which is slightly lower than the cumulative F.K.I. average of 12.8.

The average bursting strength values obtained for each mill are graphically presented in Figure 3. It may be observed in Table II that the average bursting strength values for the various mills range from a low of 100 for Mill Q to a high of 118 for Mill B. The current F.K.I. average bursting strength is 108, slightly lower than the cumulative F.K.I. average of 110.

A graphic comparison of the Elmendorf tear results for the various mills is given in Figures 4 and 5. The data of Table II show that Mill K has the highest average machine direction tear value of 415 units whereas Mills C and I have the lowest value of 321 units. Mills K and C have the highest and lowest cross-machine tear values, 424 and 353 units, respectively. It may be noted that the current F.K.I. average machine and cross-machine direction tear results are only slightly lower than the cumulative averages.

A comparison of the F.K.I. indexes indicates that, for the current period, the current F.K.I. averages for caliper, bursting strength, and Elmendorf tear, are slightly lower than the respective cumulative F.K.I. averages, whereas the current F.K.I. average for basis weight is the same as the cumulative.

In order to compare the variation within a given mill, the test results for each particular mill have been tabulated in Tables III to XIX for Mills A to Q, respectively. In addition to the current and cumulative averages, the mill factor and mill index are given for each mill. The cumulative mill average is the average test result obtained on the samples submitted by the particular mill for the previous twelve months excluding the current period. The mill factor and the mill index are obtained as follows:

$$\frac{\text{current mill average}}{\text{cumulative mill average}} \times 100 = \text{mill factor (\%)}$$

$$\frac{\text{current mill average}}{\text{cumulative F.K.I. average}} \times 100 = \text{mill index (\%)}$$

The mill factor and the mill index serve as a ready means for comparing the current mill results either with the previous results for that particular mill or with the cumulative F.K.I. results. The reports also contain a comparison of the test data obtained at the mills with test data obtained at The Institute of Paper Chemistry.

The results obtained on the special drum stock may be seen in Table XX.

It may be noted in Table III through XX that the test data include information about the sheet finish. The summarized results for the mills which submitted sample lots during the current period are as follows:

Mill Code	No. of Sample Lots W.F.	D.F.	Misc.
A	5, 1[a]		
B	7		
C	8[a]		
D	9		
E	2[a]		
F	2		
G	7		
H	8		
I	11[a]		
J	3	1	
K	4		
L			8[c]
M	6		
N	5[a]		
O	7		
P	15		
Q	3[a]		

[a] One side only

[b] Drum linerboard

[c] Sheet finish not reported

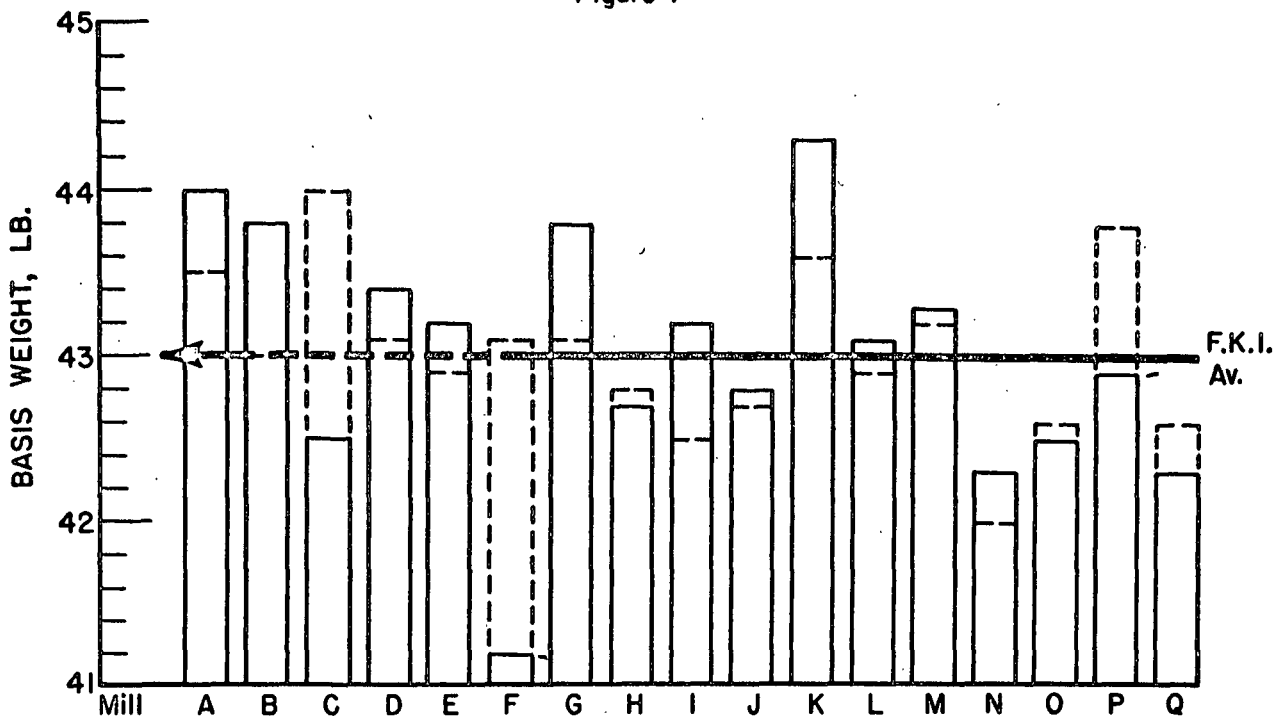
The results indicate that a majority of the mills are using a water finish on their 42-lb. linerboard.

TABLE II

SUMMARY OF COMPOSITE MILL AVERAGES--NOVEMBER 1 THROUGH NOVEMBER 30, 1955

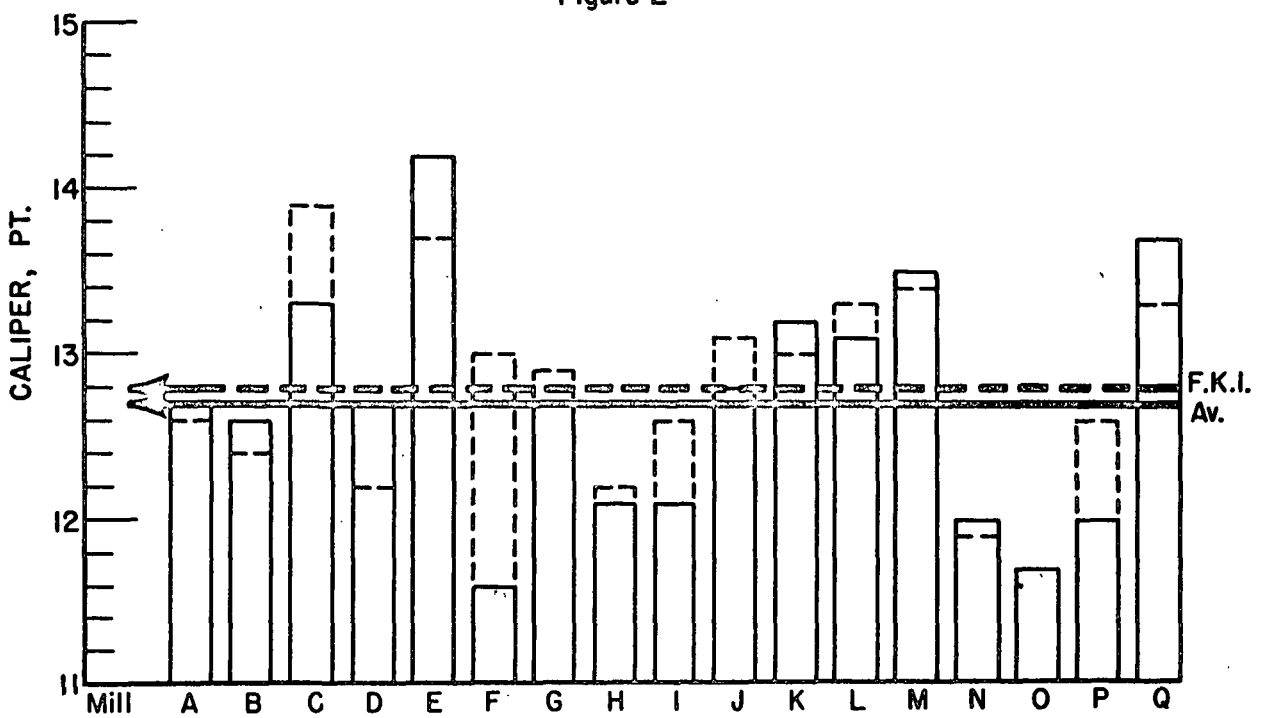
Mill	Basis Weight, lb.	Caliper, points	Bursting Strength, p.s.i. gage	Elmendorf Tear, g./sheet	
				In Machine	Cross Machine
A	44.0	12.7	115	339	397
B	43.8	12.6	118	328	376
C	42.5	13.3	104	321	353
D	43.4	12.7	112	351	395
E	43.2	14.2	106	340	366
F	41.2	11.6	106	349	371
G	43.8	12.7	109	341	391
H	42.7	12.1	107	374	398
I	43.2	12.1	105	321	364
J	42.8	12.8	109	374	374
K	44.3	13.2	102	415	424
L	43.1	13.1	111	339	378
M	43.3	13.5	107	385	400
N	42.3	12.0	108	358	384
O	42.5	11.7	108	364	379
P	42.9	12.0	109	361	390
Q	42.3	13.7	100	331	363
Current FKI Average:	43.0	12.7	108	352	383
Cumulative FKI Average:	43.0	12.8	110	355	385
FKI Index, %	100.0	99.2	98.2	99.2	99.5

Figure 1



COMPARISON OF BASIS WEIGHT RESULTS
(Period Nov. 1 – Nov. 30, 1955)

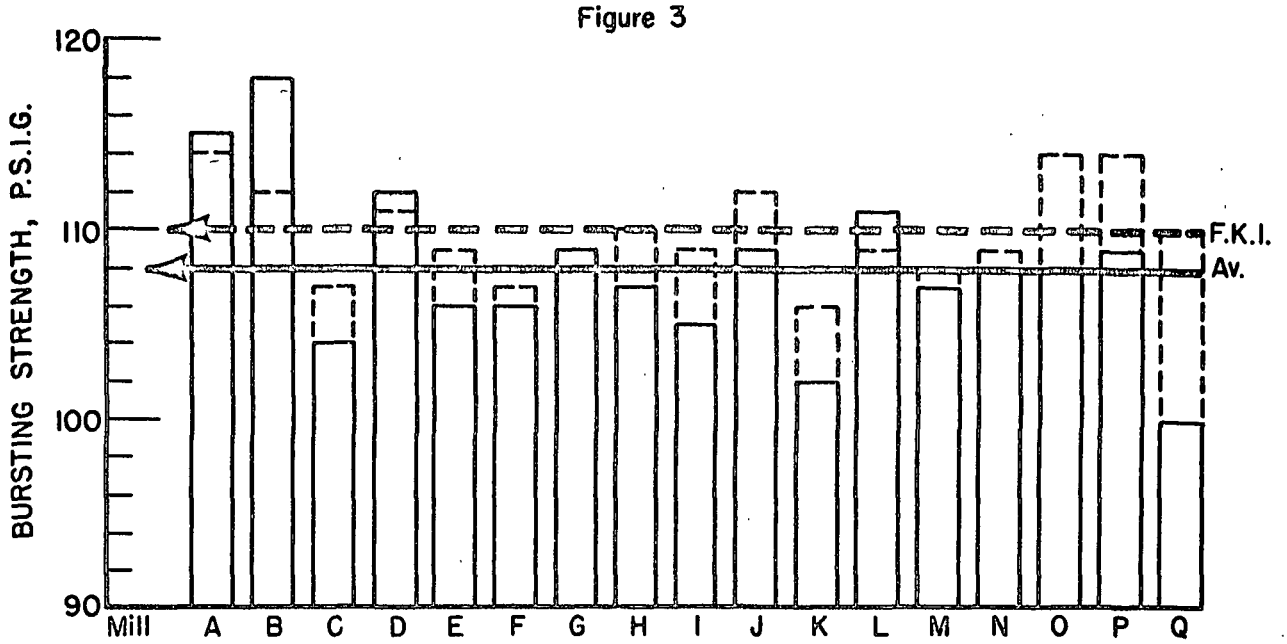
Figure 2



COMPARISON OF CALIPER RESULTS
(Period Nov. 1 – Nov. 30, 1955)

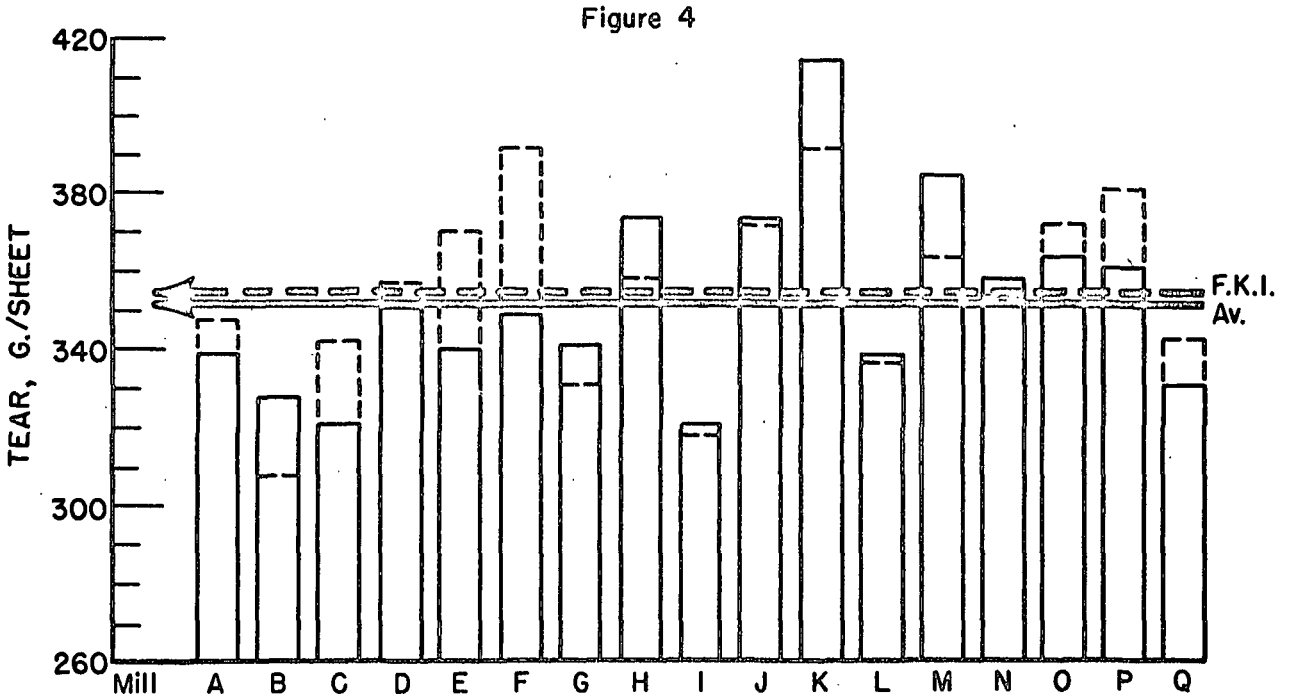
——— Current mill average
– – – – – Cumulative mill average

Figure 3



COMPARISON OF BURSTING STRENGTH RESULTS
(Period Nov. 1 – Nov. 30, 1955)

Figure 4



COMPARISON OF TEAR RESULTS, Machine Direction
(Period Nov. 1 – Nov. 30, 1955)

——— Current mill average
– – – – – Cumulative mill average

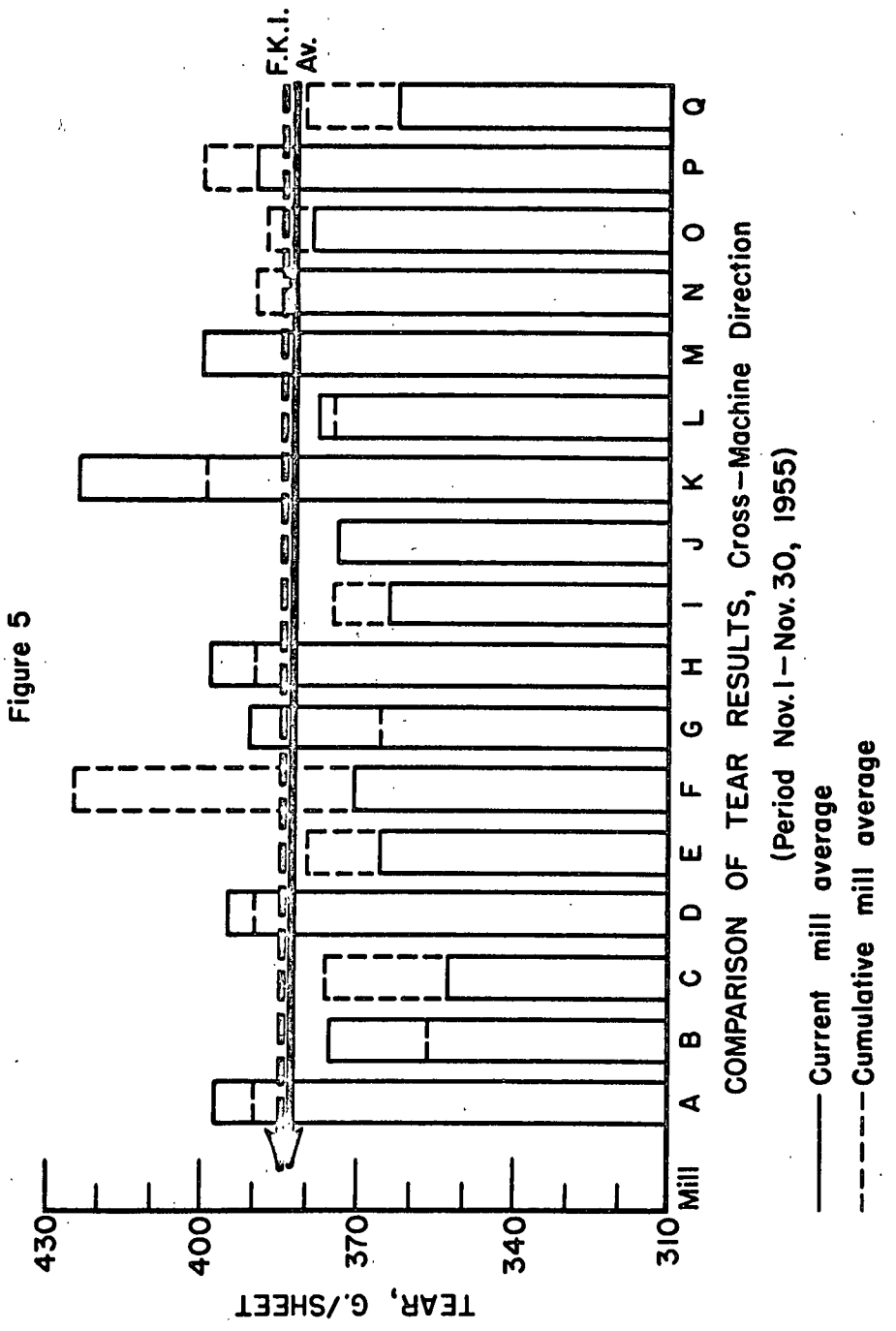

F.K.I. Av.
A B C D E F G H I J K L M N O P Q
Mill
430
400
370
340
310
TEAR, G./SHEET
COMPARISON OF TEAR RESULTS, Cross-Machine Direction
(Period Nov. 1-Nov. 30, 1955)
Current mill average
Cumulative mill average

Figure 5

SUMMARY OF INSTITUTE DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955

TABLE III

MILL A--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
166773	A-700	W.F.	11/14/55	10/30/55	1	44.0	42.6	43.6	13.0	12.0	12.5	130	77	113	384	288	324[a]	416	344	383[a]
166774	A-701	WFlS[b]	11/14/55	11/ 1/55	1	46.0	44.4	45.1	13.1	12.3	12.8	138	88	119	400	320	363[a]	472	376	421[a]
166790	A-702	W.F.	11/15/55	11/ 7/55	2	44.2	43.6	43.9	13.5	12.5	13.0	140	84	114	384	296	345	456	368	407[a]
166791	A-703	W.F.	11/15/55	11/ 8/55	2	44.6	43.6	44.0	13.2	12.5	12.9	134	100	115	392	320	353	432	368	402[a]
166912	A-704	W.F.	11/23/55	11/13/55	1	44.2	42.8	43.8	12.9	12.1	12.5	137	95	116	400	296	339	424	352	399[a]
166913	A-705	W.F.	11/23/55	11/13/55	2	44.0	43.0	43.4	12.8	11.5	12.4	132	84	112	376	272	311[a]	400	352	369[a]
Current Mill Average:								44.0			12.7			115			339			397
Cumulative Mill Average:								43.5			12.6			114			347			390
Mill Factor, %								101.1			100.8			100.9			97.7			101.8
Mill Index, %								102.3			99.2			104.5			95.5			103.1

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

[b]The mill data sheet lists the finish as W.F.

SUMMARY OF INSTITUTE DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE IV

MILL B--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
166583	B-1247	W.F.	11/ 1/55	10/21/55	1	44.6	42.4	43.6	12.9	11.9	12.3	138	89	117	360	288	325[a]	384	336	360[a]
166603	B-1248	W.F.	11/ 2/55	10/23/55	1	44.4	43.6	44.1	13.1	12.2	12.7	140	91	118	400	256	325[a]	440	336	381[a]
166654	B-1249	W.F.	11/ 7/55	10/26/55	1	45.2	42.8	44.1	13.1	11.8	12.6	130	97	116	352	232	317[a]	472	336	375[a]
166869	B-1250	W.F.	11/19/55	11/ 6/55	1	44.6	42.6	43.5	13.1	11.8	12.5	134	101	120	376	280	321[a]	440	344	367[a]
166870	B-1251	W.F.	11/19/55	11/ 8/55	1	44.0	42.6	43.4	13.1	12.2	12.6	142	93	116	384	304	340[a]	408	344	375[a]
166875	B-1252	W.F.	11/21/55	11/15/55	1	45.6	42.2	43.8	13.2	12.1	12.7	141	100	121	360	272	325[a]	416	344	375[a]
166876	B-1253	W.F.	11/21/55	11/17/55	1	45.2	43.0	44.1	13.1	12.1	12.7	142	109	121	408	264	341	448	336	398[a]
Current Mill Average:								43.8			12.6			118			328			376
Cumulative Mill Average:								43.0			12.4			112			308			357
Mill Factor, %								101.9			101.6			105.4			106.5			105.3
Mill Index, %								101.9			98.4			107.3			92.4			97.7

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE V

MILL C--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
166762	C-705	WF ISL	11/12/55	10/19/55	1	43.0	40.4	41.9	14.0	12.8	13.3	112	84	100	376	272	315[a]	384	304	343[a]
166763	C-706	WF ISL	11/12/55	10/19/55	1	42.2	40.4	41.5	14.0	12.0	13.2	125	73	102	352	272	305[a]	384	336	355[a]
166764	C-707	WF ISL	11/12/55	10/25/55	1	44.4	42.8	43.5	14.1	12.9	13.5	132	97	113	400	312	341	392	328	365[a]
166765	C-708	WF ISL	11/12/55	10/25/55	1	44.0	42.2	43.1	13.8	11.9	13.2	134	87	111	352	264	319[a]	392	320	355[a]
166766	C-709	WF ISL	11/12/55	10/26/55	1	43.0	41.2	42.2	13.9	13.0	13.5	116	88	104	392	280	323[a]	376	280	343[a]
166767	C-710	WF ISL	11/12/55	10/26/55	1	43.6	41.6	42.2	14.4	12.8	13.5	116	77	104	368	296	323[a]	376	320	346[a]
166788	C-711	WF ISL	11/15/55	11/ 9/55	1	44.2	41.8	43.0	14.0	12.2	13.2	122	76	99	400	248	322[a]	392	320	356[a]
166789	C-712	WF ISL	11/15/55	11/ 9/55	1	43.8	41.0	42.5	14.0	12.3	13.0	117	73	96	360	264	324[a]	408	320	363[a]
Current Mill Average:								42.5			13.3			104			321			353
Cumulative Mill Average:								44.0			13.9			107			342			377
Mill Factor, %								96.6			95.7			97.2			93.9			93.6
Mill Index, %								98.8			103.9			94.5			90.4			91.7

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE VI

MILL D--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
166651	D-912	W.F.	11/ 7/55	11/ 1/55	4	44.8	43.2	44.2	13.3	12.6	13.0	133	96	112	400	312	351[a]	456	360	411[a]
166652	D-913	W.F.	11/ 7/55	11/ 2/55	4	43.0	41.6	42.3	13.2	12.2	12.8	127	85	108	368	312	342[a]	400	352	375[a]
166653	D-914	W.F.	11/ 7/55	11/ 3/55	4	43.2	41.8	42.6	13.1	12.0	12.5	130	76	108	384	312	349[a]	464	352	383[a]
166824	D-915	W.F.	11/16/55	11/11/55	4	44.0	43.4	43.8	13.4	12.8	13.0	139	101	114	408	272	337[a]	456	376	420[a]
166825	D-916	W.F.	11/16/55	11/12/55	4	44.2	42.0	43.4	12.5	11.5	12.1	137	100	115	384	288	339	456	368	404[a]
166826	D-917	W.F.	11/16/55	11/13/55	4	43.6	43.4	43.5	12.9	12.2	12.5	130	83	110	352	288	329[a]	464	352	383[a]
166872	D-918	W.F.	11/21/55	11/14/55	4	43.6	42.4	43.0	12.5	11.5	12.1	133	92	116	408	328	359[a]	416	328	375[a]
166873	D-919	W.F.	11/21/55	11/15/55	4	45.0	43.8	44.0	13.9	12.2	13.4	138	92	113	440	360	395[a]	448	368	405[a]
166874	D-920	W.F.	11/21/55	11/16/55	4	45.0	43.4	44.2	13.2	12.2	12.6	126	98	111	384	320	355[a]	416	368	395[a]
Current Mill Average:								43.4			12.7			112			351			395
Cumulative Mill Average:								43.1			12.2			111			357			390
Mill Factor, %								100.7			104.1			100.9			98.3			101.3
Mill Index, %								100.9			99.2			101.8			98.9			102.6

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE VII

MILL E--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
166768	E-184	WFlS	11/12/55	11/10/55	2	45.0	43.6	44.2	14.9	13.9	14.4	125	89	110	424	296	337[a]	416	336	375[a]
166946	E-186	WFlS	11/28/55	11/25/55	2	43.0	41.6	42.2	14.5	13.3	13.9	132	75	103	392	296	343[a]	400	336	357[a]
Current Mill Average:								43.2			14.2			106			340			366
Cumulative Mill Average:								42.9			13.7			109			370			380
Mill Factor, %								100.7			103.6			97.2			91.9			96.3
Mill Index, %								100.5			110.9			96.4			95.8			95.1

TABLE VIII

MILL F--42-LB. LINERBOARD

166604	F-62	W.B.	11/ 2/55	10/14/55	--	41.8	39.6	40.7	11.9	10.9	11.3	125	90	109	368	312	341[a]	400	328	365[a]
166605	F-63	W.B.	11/ 2/55	10/19/55	--	43.4	40.6	41.6	12.5	11.6	12.0	134	90	103	384	320	358[a]	424	352	377[a]
Current Mill Average:								41.2			11.6			106			349			371
Cumulative Mill Average:								43.1			13.0			107			392			425
Mill Factor, %								95.6			89.2			99.1			89.0			87.3
Mill Index, %								95.8			90.6			96.4			98.3			96.4

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE IX

MILL G--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet In			Elmendorf Tear, g./sheet Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
166584	G-186	W.F.	11/ 1/55	10/25/55	2	43.8	41.8	42.7	12.9	11.3	12.2	137	87	108	376	272	329[a]	448	368	396[a]
166647	G-187	W.F.	11/ 4/55	10/26/55	2	45.0	42.6	43.7	13.5	11.8	12.6	135	83	111	368	272	322[a]	424	368	393[a]
166649	G-188	W.F.	11/ 5/55	10/29/55	2	44.2	42.0	43.2	13.2	12.0	12.4	133	93	112	384	304	342[a]	424	376	393[a]
166658	G-689	W.F.	11/ 7/55	10/31/55	2	44.4	42.2	43.4	13.7	11.1	12.3	130	88	108	376	288	339[a]	464	328	396[a]
166659	G-690	W.F.	11/ 7/55	10/28/55	1	45.4	43.6	44.5	13.7	12.0	13.1	130	79	105	416	312	362	456	352	395[a]
166724	G-691	W.F.	11/ 9/55	10/31/55	1	45.6	43.8	44.4	13.7	12.0	13.0	133	97	112	400	312	341	440	328	379[a]
166750	G-692	W.F.	11/10/55	10/31/55	1	45.6	43.6	44.6	13.9	12.7	13.2	129	79	106	392	304	354[a]	424	360	387[a]
Current Mill Average:								43.8			12.7			109			341			391
Cumulative Mill Average:								43.1			12.9			108			331			366
Mill Factor, %								101.6			98.4			100.9			103.0			106.8
Mill Index, %								101.9			99.2			99.1			96.1			101.6

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE X

MILL H--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
166585	H-529	W.F.[b]	11/ 1/55	10/21/55	2	44.0	41.8	42.5	12.9	12.0	12.3	126	83	107	416	320	363[a]	448	352	388[a]
166586	H-530	W.F.[b]	11/ 1/55	10/22/55	2	44.0	42.4	43.3	12.9	11.6	12.3	140	86	110	448	312	381[a]	464	352	404[a]
166656	H-531	W.F.[b]	11/ 7/55	10/24/55	2	43.4	42.0	42.6	12.7	11.5	12.2	138	90	110	440	320	391[a]	528	368	415[a]
166657	H-532	W.F.[b]	11/ 7/55	10/25/55	2	43.2	42.2	42.8	12.7	11.7	12.1	129	80	102	440	296	367	424	352	375[a]
166722	H-533	W.F.[b]	11/ 8/55	11/ 1/55	2	42.6	41.6	42.1	12.3	11.1	11.9	126	86	112	400	336	363[a]	456	368	408[a]
166723	H-534	W.F.[b]	11/ 8/55	11/ 2/55	2	42.4	41.6	42.1	12.3	11.3	11.8	125	86	106	448	304	382[a]	464	368	413[a]
166792	H-535	W.F.	11/15/55	11/ 7/55	2	44.0	42.2	43.3	13.0	11.8	12.2	128	78	107	408	296	365[a]	456	360	393[a]
166793	H-536	W.F.	11/15/55	11/ 8/55	2	44.0	41.8	43.2	12.8	11.8	12.4	126	85	104	520	328	377[a]	440	328	389[a]
Current Mill Average:								42.7			12.1			107			374			398
Cumulative Mill Average:								42.8			12.2			110			358			390
Mill Factor, %								99.8			99.2			97.3			104.5			102.1
Mill Index, %								99.3			94.5			97.3			105.4			103.4

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

[b]The mill data sheet identifies the finish as WF1S.

SUMMARY OF INSTITUTE DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE XI

MILL I--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
166554	I-498	WF1S	11/ 1/55	10/24/55	1	43.4	41.8	42.6	12.4	11.4	12.1	124	87	102	352	280	316[a]	392	328	361[a]
166589	I-499	WF1S	11/ 1/55	10/25/55	1	43.8	42.6	43.2	12.7	11.8	12.2	120	77	105	368	248	317[a]	392	328	351[a]
166590	I-500	WF1S	11/ 1/55	10/26/55	1	43.8	42.4	43.1	12.9	11.9	12.2	118	88	106	376	256	305	400	320	360[a]
166591	I-501	WF1S	11/ 1/55	10/27/55	1	44.0	41.4	43.1	12.4	11.8	12.1	122	92	106	408	264	303[a]	392	328	353[a]
166592	I-502	WF1S	11/ 1/55	10/27/55	1	44.0	42.0	43.2	12.5	11.7	12.1	115	78	100	336	264	297[a]	384	304	358[a]
166798	I-503	WF1S	11/15/55	11/ 6/55	1	44.0	42.8	43.6	12.5	11.6	11.9	126	86	109	400	264	330[a]	416	344	371[a]
166799	I-504	WF1S	11/15/55	11/ 7/55	1	44.0	42.2	43.1	12.9	11.6	12.2	116	84	102	376	240	309[a]	392	336	359[a]
166800	I-505	WF1S	11/15/55	11/ 8/55	1	44.4	42.3	43.5	12.5	11.2	12.0	122	85	106	448	272	325[a]	416	320	368[a]
166801	I-506	WF1S	11/15/55	11/10/55	1	44.4	41.8	43.4	12.6	11.4	12.0	126	88	109	368	288	331[a]	400	344	364[a]
166916	I-507	WF1S	11/25/55	11/11/55	1	44.6	42.2	43.5	12.6	11.5	12.1	125	95	111	416	288	353[a]	464	368	339[a]
166914	I-508	WF1S	11/23/55	11/16/55	1	44.0	42.0	42.9	12.5	11.2	11.8	118	81	103	384	288	337[a]	424	320	366[a]
Current Mill Average:								43.2			12.1			105			321			364
Cumulative Mill Average:								42.5			12.6			109			318			375
Mill Factor, %								101.6			96.0			96.3			100.9			97.1
Mill Index, %								100.5			94.5			95.5			90.4			94.5

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE XII

MILL J--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
166771	J-563	W.F.	11/14/55	10/31/55	--	43.2	41.0	42.0	13.4	12.0	12.5	139	102	116	400	288	346[a]	416	336	377[a]
166772	J-564	D.F.	11/14/55	11/ 1/55	--	44.2	42.2	43.5	13.2	11.5	12.8	123	87	106	440	328	385[a]	424	320	361[a]
166385	J-565	W.F.	11/21/55	11/11/55	--	44.0	41.6	42.6	13.1	12.4	12.8	118	97	107	456	352	391	400	328	369[a]
166386	J-566	W.F.	11/21/55	11/11/55	--	44.2	42.0	43.2	13.6	12.7	13.1	124	88	108	408	336	375[a]	448	360	387[a]
Current Mill Average:								42.8			12.8			109			374			374
Cumulative Mill Average:								42.7			13.1			112			372			374
Mill Factor, %								100.2			97.7			97.3			100.5			100.0
Mill Index, %								99.5			100.0			99.1			105.4			97.1

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE XIII

MILL K--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
166648	K-32	S.F.	11/ 5/55	10/28/55	7	44.6	41.0	43.4	13.2	12.2	12.8	130	86	103	464	352	405[a]	448	352	401[a]
166770	K-33	S.F.	11/14/55	11/ 5/55	7	44.0	43.2	43.7	14.0	12.0	13.0	117	74	100	432	320	372[a]	432	344	389[a]
166857	K-34	S.F.	11/18/55	11/ 8/55	7	46.0	44.0	45.1	14.9	12.6	13.4	141	79	107	536	360	455[a]	512	416	461[a]
166947	K-35	S.F.	11/28/55	11/23/55	7	45.8	43.6	45.0	14.0	12.6	13.4	125	77	99	480	360	428[a]	512	376	447[a]
Current Mill Average:								44.3			13.2			102			415			424
Cumulative Mill Average:								43.6			13.0			106			392			399
Mill Factor, %								101.6			101.5			96.2			105.9			106.3
Mill Index, %								103.0			103.1			92.7			116.9			110.1

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE XIV

MILL L--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
166587	L-401		11/ 1/55	10/11/55	1	42.6	41.0	42.0	14.0	12.1	13.2	136	90	111	384	256	332[a]	416	336	373[a]
166588	L-402		11/ 1/55	10/15/55	1	44.0	42.4	43.2	12.9	11.2	12.3	125	92	111	360	304	327[a]	400	336	367[a]
166794	L-403		11/15/55	10/19/55	1	43.0	40.4	42.0	13.3	11.6	12.5	129	92	110	344	256	315[a]	392	320	358[a]
166795	L-404		11/15/55	10/21/55	1	44.6	42.6	43.7	14.7	12.4	13.8	134	95	111	368	312	337[a]	416	352	386[a]
166796	L-405		11/15/55	10/25/55	1	44.4	41.8	43.6	14.4	12.3	13.3	131	100	112	392	312	361[a]	464	328	393[a]
166797	L-406		11/15/55	10/26/55	1	44.6	42.2	43.6	13.9	12.0	13.2	138	88	117	408	304	356[a]	440	336	382[a]
166901	L-407		11/22/55	11/ 1/55	1	44.0	42.0	43.0	13.4	11.4	12.4	126	91	112	384	304	351[a]	464	360	385[a]
166902	L-408		11/22/55	11/ 5/55	1	44.2	42.6	43.5	14.9	12.8	13.9	127	80	105	376	280	335[a]	432	328	379[a]
Current Mill Average:								43.1			13.1			111			339			378
Cumulative Mill Average:								42.9			13.3			109			337			375
Mill Factor, %								100.5			98.5			101.8			100.6			100.8
Mill Index, %								100.2			102.3			100.9			95.5			98.2

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE XV

MILL M--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
166553	M-346	W.	11/ 1/55	10/19/55	4	44.0	42.2	43.3	13.3	12.3	12.9	126	94	108	384	320	352[a]	416	328	379[a]
166633	M-347	W.	11/ 3/55	10/26/55	4	44.2	41.8	43.0	13.3	12.5	13.0	121	92	110	440	336	378[a]	464	352	394[a]
166634	M-348	W.	11/ 3/55	10/27/55	4	44.0	41.8	42.8	13.8	12.8	13.1	128	83	109	456	344	385[a]	400	352	385[a]
166855	M-349	W.	11/18/55	11/ 2/55	4	45.8	42.2	44.3	14.9	13.3	13.8	126	89	104	424	368	393[a]	448	360	407[a]
166856	M-350	W.	11/18/55	11/10/55	4	45.6	42.0	44.0	15.1	13.4	14.1	123	87	103	456	384	419[a]	464	384	426[a]
166950	M-351	W.	11/28/55	11/12/55	2	44.6	40.0	42.6	14.5	13.1	13.8	128	75	106	448	312	384	464	352	411[a]
Current Mill Average:								43.3			13.5			107			385			400
Cumulative Mill Average:								43.2			13.4			108			364			382
Mill Factor, %								100.2			100.7			99.1			105.8			104.7
Mill Index, %								100.7			105.5			97.3			108.5			103.9

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE XVI

MILL N--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
166606	N-166	WF1S	11/ 2/55	10/22/55	1	43.2	41.8	42.4	13.0	11.5	12.3	128	90	111	448	304	363	432	368	390[a]
166607	N-167	WF1S	11/ 2/55	10/22/55	1	44.0	41.0	42.4	13.1	11.5	12.2	133	89	112	400	272	333[a]	432	368	393[a]
166608	N-168	WF1S	11/ 2/55	10/17/55	1	43.0	42.0	42.4	13.0	12.0	12.5	125	87	104	432	352	395[a]	432	352	385[a]
166655	N-169	WF1S	11/ 7/55	10/31/55	1	42.0	41.6	41.9	11.8	10.8	11.3	120	84	102	384	296	339[a]	424	352	377[a]
166775	N-170	WF1S	11/14/55	11/ 1/55	1	43.2	42.0	42.6	12.3	11.4	11.8	125	92	110	400	280	359[a]	408	344	375[a]
Current Mill Average:								42.3			12.0			108			358			384
Cumulative Mill Average:								42.0			11.9			109			354			390
Mill Factor, %								100.7			100.8			99.1			101.1			98.5
Mill Index, %								98.4			93.8			98.2			100.8			99.7

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE XVII

MILL O--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
166548	O-93	W.F.	11/ 1/55	9/26/55	4	43.2	41.4	42.2	11.5	10.6	11.0	132	90	109	400	336	365[a]	464	328	385[a]
166549	O-94	W.F.	11/ 1/55	10/ 4/55	4	43.4	41.6	42.2	12.1	11.1	11.6	127	95	108	408	288	360[a]	488	304	387[a]
166550	O-95	W.F.	11/ 1/55	10/11/55	4	44.0	42.0	42.8	12.0	11.0	11.6	126	80	107	432	360	395[a]	400	320	359[a]
166551	O-96	W.F.	11/ 1/55	10/12/55	4	42.6	42.0	42.2	12.4	11.6	11.9	130	92	112	480	336	375[a]	448	360	393[a]
166552	O-97	W.F.	11/ 1/55	10/26/55	4	43.6	42.0	42.7	12.0	11.1	11.6	137	96	118	376	304	342[a]	440	360	385[a]
166948	O-98	W.F.	11/28/55	11/ 5/55	4	43.0	42.0	42.4	12.4	11.2	11.9	115	80	98	400	296	347[a]	424	320	368[a]
166949	O-99	W.F.	11/28/55	11/ 5/55	4	44.0	42.8	43.3	12.5	11.8	12.2	119	81	101	400	320	361[a]	400	336	375[a]
Current Mill Average:								42.5			11.7			108			364			379
Cumulative Mill Average:								42.6			11.7			114			372			388
Mill Factor, %								99.8			100.0			94.7			97.8			97.7
Mill Index, %								98.8			91.4			98.2			102.5			98.4

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE XVIII

MILL P--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
166858	P-113	W.F.	11/18/55	10/27/55	--	43.2	41.4	42.3	12.4	11.1	11.8	117	76	99	400	336	369[a]	400	360	378[a]
166859	P-114	W.F.	11/18/55	10/28/55	--	44.0	42.0	43.0	13.0	11.7	12.2	124	92	110	464	320	387[a]	440	360	395[a]
166860	P-115	W.F.	11/18/55	10/28/55	--	44.0	41.8	42.7	12.5	11.4	12.1	123	88	108	408	328	371[a]	432	360	397[a]
166861	P-116	W.F.	11/18/55	10/28/55	--	44.2	42.2	43.5	13.0	11.5	12.3	125	85	109	400	328	359[a]	432	328	389[a]
166862	P-117	W.F.	11/18/55	10/31/55	--	46.0	43.0	44.4	13.5	12.0	12.9	131	95	112	408	312	361[a]	488	392	415[a]
166863	P-118	W.F.	11/18/55	10/31/55	--	46.8	44.4	45.4	13.3	12.2	13.0	135	95	112	456	344	391[a]	472	368	427[a]
166864	P-119	W.F.	11/18/55	11/ 3/55	--	43.0	40.4	41.7	11.9	10.9	11.4	127	93	112	400	304	336[a]	408	336	373[a]
166877	P-120	W.F.	11/21/55	11/10/55	--	42.0	41.0	41.7	11.9	11.0	11.5	120	92	107	376	320	347[a]	408	336	372[a]
166878	P-121	W.F.	11/21/55	11/10/55	--	42.0	40.0	40.9	12.0	11.0	11.4	124	92	108	384	296	335	384	320	361[a]
166879	P-122	W.F.	11/21/55	11/10/55	--	42.0	40.2	41.3	12.0	11.0	11.4	120	94	105	376	312	339	384	320	361[a]
166880	P-123	W.F.	11/21/55	11/11/55	--	46.0	43.2	44.5	12.3	11.0	11.8	140	100	115	440	336	373[a]	424	352	393[a]
166881	P-124	W.F.	11/21/55	11/12/55	--	43.8	42.0	43.1	12.8	11.2	12.1	131	74	107	384	336	360[a]	440	360	402[a]
166882	P-125	W.F.	11/21/55	11/14/55	--	42.2	40.2	41.4	12.1	10.8	11.5	136	97	111	400	320	359[a]	432	368	391[a]
166883	P-126	W.B.	11/21/55	11/14/55	--	44.0	41.0	43.2	12.7	11.2	11.9	136	95	112	408	336	365[a]	432	336	392[a]
166884	P-127	W.B.	11/21/55	11/14/55	--	45.8	43.8	44.5	13.2	11.8	12.4	137	86	108	400	328	361[a]	440	384	405[a]
Current Mill Average:								42.9			12.0			109			361			390
Cumulative Mill Average:								43.8			12.6			114			381			400
Mill Factor, %								97.9			95.2			95.6			94.8			97.5
Mill Index, %								99.8			93.8			99.1			101.7			101.3

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE XIX

MILL Q--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
															In			Across		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
166769	Q-42	WF1S	11/12/55	10/30/55	3	45.4	40.8	43.2	14.8	13.3	13.9	122	81	102	392	280	344[a]	408	320	360[a]
166911	Q-43	WF1S	11/23/55	11/ 8/55	3	44.2	42.0	42.8	14.6	12.8	13.8	124	74	98	368	288	327[a]	408	344	369[a]
166951	Q-44	WF1S	11/28/55	11/17/55	3	42.0	40.0	40.8	14.2	13.0	13.5	116	85	101	344	296	322	400	336	359[a]
Current Mill Average:								42.3			13.7			100			331			363
Cumulative Mill Average:								42.6			13.3			110			343			381
Mill Factor, %								99.3			103.0			90.9			96.5			95.3
Mill Index, %								98.4			107.0			90.9			93.2			94.3

TABLE XX

MILL E--MISCELLANEOUS

26-lb. Linerboard

166945	E-185	W.F.	11/28/55	11/18/55	2	28.0	26.6	27.3	9.1	8.4	8.8	78	52	65	272	226	250[a]	236	216	227[a]

38-lb. Linerboard

166751	E-183	WF1S	11/10/55	11/ 8/55	2	38.0	37.4	37.7	12.4	11.3	11.8	125	75	96	384	232	297[a]	344	272	312[a]

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

As a supplementary part of the Continuous Baseline Study, comparison of the mill test results with those obtained at The Institute of Paper Chemistry on corresponding samples have been included in this report. As may be noted in Table XXI, the atmospheric conditions used prior to and during the testing period varied considerably.

TABLE XXI

	Preconditioning			Conditioning		
Code	R.H., %	Temp., °F.	Time, hr.	R.H., %	Temp., °F.	Time, hr.
A	50	72-73	24	50	72-73	24
B	48-76	52-82	0.5	50	70	24-72
C	50	73	24-336	50	73	24-336
D	35-36	78	8	50-52	72	16
E		None		55-68	80-82	--
F		None		53	72	48
G		None		50	73	24
H		None		50	73	24
I		None		40-52	68-73	--
J		None		50	73	0.5
K	50	73	24	50	73	--
L		None		42-74	75-88	--
M		None		49-66	66-75	--
N	50	73	24	50	73	24
O		None		50	73	2-24
P	50	73	24-72	50	73	48
Q	49-61	74-78	52-144	51-60	68-75	1-2

A summary of the mill comparisons for the current period as compared with the previous period may be seen in Tables XXII and XXIII, respectively. The comparison for the various mills is given in Tables XXIV to XXXX, for the 42-lb. liner samples. A comparison of the special drum stock is given in Table XLI. In all the comparisons given in Tables XXII to XLI, the Institute's test values have been used as the reference line.

A comparison of the test data in Tables XXII and XXIII indicates that agreement between the mill and Institute data is good in the majority of cases. Table XXII shows the average difference encountered in the comparison of Institute and mill test results for the sample lots submitted by each mill for the current period, as well as the maximum difference encountered in comparing the Institute and mill test results for a given sample lot. In Table XXIII, the average differences shown for each test in Table XXII have been calculated on a percentage basis for each mill. In addition, for purposes of comparison, the average percentage differences for the preceding two periods are shown.

It may be noted in Table XXIII that the maximum variation between the average basis weight results of the Institute and those of a given mill on corresponding samples is three per cent for the current period. This maximum percentage variation agrees favorably with the corresponding variations for the previous periods. Further, it may be noted that the average basis weight results for Mills A, B, C, E, F, G, J, I, K, L, M, N, P, and Q are lower than those for the Instit ute and the average results for Mills D, H, and O are higher. In general, the agreement between Institute and mill basis weight results is good for all mills.

The maximum variation in caliper for the current period is ten per cent. Compared with the values for the Institute, the average result for Mill B is the same, and the average results for the other mills are lower. The accord between Institute and Mill caliper values is good with the exception of Mill E.

It may be noted in Table XXIII that the bursting strength results exhibit a maximum variation of seven per cent for the current period. The average results for Mills A, D, F, G, J, L, and P are lower than those for the Institute, the result for Mill M is the same, and the results for the other mills are higher. The agreement in bursting strength results is good for all mills with the possible exception of Mill E.

It may be seen in Tables XXII and XXIII that the average machine direction tear results for Mills F, G, I, M, N, and P are higher than those for the Institute, the average result for Mill Q is the same, and the results for the other mills are lower. The maximum variation for the current period is fifteen per cent. The difference encountered for Mills E and G appear to be excessive.

With regard to the cross-machine direction tear results, it may be noted that the average results for Mills B, C, F, G, I, K, N, P, and Q are higher than those for the Institute whereas the average results for the other mills are lower. The maximum variation for the current period is seventeen per cent. Only the differences for Mills F and N appear to be excessive.

TABLE XXII

SUMMARY OF TEST RESULT COMPARISONS
(Average Mill and Institute Results)

	Mills*																
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
No. of Samples Compared	6	7	8	9	2	2	7	8	11	4	4	8	6	5	7	15	3
Basis Weight																	
Institute	44.0	43.8	42.5	43.4	43.2	41.2	43.8	42.7	43.2	42.8	44.3	43.1	43.3	42.3	42.5	42.9	42.3
Mill	43.0	43.6	42.4	43.6	43.0	41.1	43.3	43.3	42.6	42.3	43.8	42.4	43.0	42.1	42.7	42.5	41.0
Av. Diff.**	-1.0	-0.2	-0.1	+0.2	-0.2	-0.1	-0.5	+0.6	-0.6	-0.5	-0.5	-0.7	-0.3	-0.2	+0.2	-0.4	-1.3
Max. Diff.***	-2.4	±0.7	-0.4	+0.9	-0.8	-0.2	-0.8	+1.2	-1.4	-0.8	-0.7	-1.4	-0.5	-0.5	+0.4	-1.1	-1.9
Caliper																	
Institute	12.7	12.6	13.3	12.7	14.2	11.6	12.7	12.1	12.1	12.8	13.2	13.1	13.5	12.0	11.7	12.0	13.7
Mill	12.5	12.6	13.2	12.4	12.8	11.2	12.3	12.0	12.0	12.3	12.8	12.7	12.9	11.8	11.5	11.5	13.1
Av. Diff.**	-0.2	0.0	-0.1	-0.3	-1.4	-0.4	-0.4	-0.1	-0.1	-0.5	-0.4	-0.4	-0.6	-0.2	-0.2	-0.5	-0.6
Max.Diff.***	-0.3	±0.3	-0.4	-0.4	-1.4	-0.5	-0.7	-0.2	-0.3	-0.7	-0.6	-0.9	-0.8	-0.3	-0.3	-0.8	-0.7
Bursting Strength																	
Institute	115	118	104	112	106	106	109	107	105	109	102	111	107	108	108	109	100
Mill	113	120	107	107	113	105	108	108	106	104	106	108	107	109	110	106	104
Av. Diff.**	-2	+2	+3	-5	+7	-1	-1	+1	+1	-5	+4	-3	0	+1	+2	-3	+4
Max. Diff.***	-5	+6	+9	-8	+8	-2	+5	+3	+6	-11	+5	-7	+5	+3	+6	-9	+7
Tearing Strength, in																	
Institute	339	323	321	351	340	349	341	374	321	374	415	339	385	358	364	361	331
Mill	323	324	301	338	306	381	392	351	324	342	393	317	392	389	335	387	331
Av. Diff.**	-16	-4	- 20	-13	-34	+32	+51	-23	+3	-32	-22	-22	+7	+31	-29	+26	0
Max. Diff. ***	-34	+26	-35	-33	-61	+35	+64	-56	+32	-43	-37	-63	+41	+45	-37	+55	+4
Tearing Strength, across																	
Institute	397	376	353	395	366	371	391	398	364	374	424	378	400	384	379	390	363
Mill	382	393	363	383	363	409	420	382	382	372	432	371	387	448	377	391	377
Av. Diff. **	-15	+17	+10	-12	-3	+38	+29	-16	+18	-2	+8	-7	-13	+64	-2	+1	+14
Max. Diff.***	-30	+68	+20	-37	-33	+44	+58	-58	+28	-22	+33	-40	-62	+101	-26	+50	+26

* Comparison based on averages involved only those samples on which mill test data were submitted.

** Average difference is the difference between the Institute mill average and the mill average based on mill test data.

*** Maximum difference encountered in comparing the Institute average and the mill average for any sample submitted by that particular mill.

TABLE XXIII

COMPARISON OF INSTITUTE-MILL DIFFERENCES BY PERIODS

Mill	Period	Difference, per cent				
		Basis Weight	Caliper	Bursting Strength	Tearing Strength In	Tearing Strength Across
A	Current	-2	-2	-2	-5	-4
	100th	-2	-0.8	-0.8	-1	-2
	99th	-1	-2	+2	-6	-3
B	Current	-0.5	0	+2	-1	+5
	100th	-2	-2	+0.9	-3	+0.5
	99th	+0.7	0	0	+2	+4
C	Current	-0.2	-0.8	+3	-6	+3
	100th	-0.5	-3	+3	-2	+5
	99th	+1	-2	0	+0.9	+10
D	Current	+0.5	-2	-4	-4	-3
	100th	+1	-0.8	-0.9	+3	+1
	99th	+0.9	-0.8	-4	-1	+0.3
E	Current	-0.5	-10	+7	-10	-0.8
	100th	+0.7	-9	+5	-16	-10
	99th	+2	-6	+3	-3	+4
F	Current	-0.2	-3	-0.9	+9	+10
	100th	-0.5	-3	+5	+4	+6
	99th	+0.2	-4	+5	+3	+5
G	Current	-1	-3	-0.9	+15	+7
	100th	0	-3	-0.9	+12	+14
	99th	-0.9	-2	0	+14	+6
H	Current	+1	-0.8	+0.9	-6	-4
	100th	+2	-0.8	-3	-4	+5
	99th	+2	-0.8	0	+2	+6
I	Current	-1	-0.8	+1	+0.9	+5
	100th	+0.2	0	+0.9	+13	+15
	99th	+4	+0.8	+2	+5	+20
J	Current	-1	-4	-5	-9	-0.5
	100th	-0.7	-4	-3	-4	+2
	99th	-0.2	-4	-4	-6	-3
K	Current	-1	-3	+4	-5	+2
	100th	-0.9	-4	+3	-4	+1
	99th	-1	-2	+2	-7	+4
L	Current	-2	-3	-3	-6	-2
	100th	-2	-4	+0.9	-1	+0.3
	99th	-2	-2	-4	+0.3	+2
M	Current	-0.7	-4	0	+2	-3
	100th	-1	-5	+2	+3	+0.5
	99th	-0.5	-5	+0.9	+8	+1
N	Current	-0.5	-2	+0.9	+9	+17
	100th	0	-2	0	+8	+21
	99th	-0.2	-2	-2	+6	+18
O	Current	+0.5	-2	+2	-8	-0.5
	100th	0	-3	+0.9	-12	-9
	99th	+1	-2	0	-12	-4
P	Current	-0.9	-4	-3	+7	+0.3
	100th	-0.2	-2	-4	+3	+1
	99th	+0.2	-4	-3	+7	+4
Q	Current	-3	-4	+4	0	+4
	100th	-2	-3	+10	+6	+9
	99th	-0.9	-2	+3	+7	+7

COMPARISON OF INSTITUTE AND MILL DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955

TABLE XXIV

MILL A--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
166773	A-700	W.F.	10/30/55	1	43.6	42.9	-0.7	12.5	12.3	-0.2	113	111	-2	324[a]	319	- 5	383[a]	370	-13
166774	A-701	WFlS[b]	11/ 1/55	1	45.1	42.7	-2.4	12.8	12.6	-0.2	119	114	-5	363[a]	342	-21	421[a]	391	-30
166790	A-702	W.F.	11/ 7/55	2	43.9	42.9	-1.0	13.0	12.7	-0.3	114	115	+1	345	311	-34	407[a]	380	-27
166791	A-703	W.F.	11/ 8/55	2	44.0	43.3	-0.7	12.9	12.6	-0.3	115	113	-2	353	319	-34	402[a]	385	-17
166912	A-704	W.F.	11/13/55	1	43.8	43.2	-0.6	12.5	12.4	-0.1	116	113	-3	339	327	-12	399[a]	391	- 8
166913	A-705	W.F.	11/13/55	2	43.4	42.8	-0.6	12.4	12.3	-0.1	112	111	-1	311[a]	317	+ 6	369[a]	372	+ 3
Current Mill Average:					44.0	43.0	-1.0	12.7	12.5	-0.2	115	113	-2	339	323	-16	397	382	-15

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.
[b]The mill data sheet lists the finish as W.F.

Note: All "current mill average" data are calculated from the totals of the individual readings.

COMPARISON OF INSTITUTE AND MILL DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE XXV

MILL B--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
166583	B-1247	W.F.	10/21/55	1	43.6	43.6	0.0	12.3	12.4	+0.1	117	116	-1	325[a]	315	-10	360[a]	369	+ 9
166603	B-1248	W.F.	10/23/55	1	44.1	43.4	-0.7	12.7	12.4	-0.3	118	120	+2	325[a]	303	-22	381[a]	365	-16
166654	B-1249	W.F.	10/26/55	1	44.1	43.5	-0.6	12.6	12.7	+0.1	116	122	+6	317[a]	329	+12	375[a]	395	+20
166869	B-1250	W.F.	11/ 6/55	1	43.5	43.1	-0.4	12.5	12.8	+0.3	120	119	-1	321[a]	347	+26	367[a]	435	+68
166870	B-1251	W.F.	11/ 8/55	1	43.4	43.5	+0.1	12.6	12.9	+0.3	116	120	+4	340[a]	349	+ 9	375[a]	423	+48
166875	B-1252	W.F.	11/15/55	1	43.8	44.5	+0.7	12.7	12.7	0.0	121	121	0	325[a]	306	-19	375[a]	380	+ 5
166876	B-1253	W.F.	11/17/55	1	44.1	43.7	-0.4	12.7	12.7	0.0	121	119	-2	341	319	-22	398[a]	383	-15
Current Mill Average:					43.8	43.6	-0.2	12.6	12.6	0.0	118	120	+2	328	324	- 4	376	393	+17

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

COMPARISON OF INSTITUTE AND MILL DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE XXVI

MILL C--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
166762	C-705	WF ISL	10/19/55	1	41.9	41.7	-0.2	13.3	13.0	-0.3	100	106	+6	315[a]	292	-23	343[a]	363	+20
166763	C-706	WF ISL	10/19/55	1	41.5	41.6	+0.1	13.2	13.1	-0.1	102	105	+3	305[a]	298	- 7	355[a]	346	- 9
166764	C-707	WF ISL	10/25/55	1	43.5	43.1	-0.4	13.5	13.1	-0.4	113	114	+1	341	306	-35	365[a]	375	+10
166765	C-708	WF ISL	10/25/55	1	43.1	42.9	-0.2	13.2	13.2	0.0	111	115	+4	319[a]	302	-17	355[a]	368	+13
166766	C-709	WF ISL	10/26/55	1	42.2	42.0	-0.2	13.5	13.3	-0.2	104	104	0	323[a]	292	-31	343[a]	341	- 2
166767	C-710	WF ISL	10/26/55	1	42.2	42.0	-0.2	13.5	13.3	-0.2	104	103	-1	323[a]	292	-31	346[a]	360	+14
166788	C-711	WF ISL	11/ 9/55	1	43.0	43.0	0.0	13.2	13.1	-0.1	99	106	+7	322[a]	313	- 9	356[a]	376	+20
166789	C-712	WF ISL	11/ 9/55	1	42.5	42.6	+0.1	13.0	13.1	+0.1	96	105	+9	324[a]	312	-12	363[a]	372	+ 9
Current Mill Average:					42.5	42.4	-0.1	13.3	13.2	-0.1	104	107	+3	321	301	-20	353	363	+10

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

COMPARISON OF INSTITUTE AND MILL DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE XXVII

MILL D--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
166651	D-912	W.F.	11/ 1/55	4	44.2	45.1	+0.9	13.0	12.9	-0.1	112	107	-5	351[a]	365	+14	411[a]	419	+ 8
166652	D-913	W.F.	11/ 2/55	4	42.3	43.2	+0.9	12.8	12.4	-0.4	108	102	-6	342[a]	309	-33	375[a]	368	- 7
166653	D-914	W.F.	11/ 3/55	4	42.6	43.4	+0.8	12.5	12.2	-0.3	108	102	-6	349[a]	333	-16	383[a]	380	- 3
166824	D-915	W.F.	11/11/55	4	43.8	43.3	-0.5	13.0	12.9	-0.1	114	106	-8	337[a]	341	+ 4	420[a]	383	-37
166825	D-916	W.F.	11/12/55	4	43.4	43.4	0.0	12.1	12.0	-0.1	115	108	-7	339	329	-10	404[a]	397	- 7
166826	D-917	W.F.	11/13/55	4	43.5	43.2	-0.3	12.5	12.1	-0.4	110	110	0	329[a]	319	-10	383[a]	380	- 3
166872	D-918	W.F.	11/14/55	4	43.0	43.1	+0.1	12.1	11.9	-0.2	116	110	-6	359[a]	341	-18	375[a]	372	- 3
166873	D-919	W.F.	11/15/55	4	44.0	43.9	-0.1	13.4	12.8	-0.6	113	110	-3	395[a]	369	-26	405[a]	372	-33
166874	D-920	W.F.	11/16/55	4	44.2	44.3	+0.1	12.6	12.1	-0.5	111	107	-4	355[a]	339	-16	395[a]	372	-23
Current Mill Average:					43.4	43.6	+0.2	12.7	12.4	-0.3	112	107	-5	351	338	-13	395	383	-12

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

COMPARISON OF INSTITUTE AND MILL DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE XXVIII

MILL E--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
166768	E-184	WFlS	11/10/55	2	44.2	43.4	-0.8	14.4	13.2	-1.2	110	118	+8	337[a]	329	- 8	375[a]	402	+27
166946	E-186	WFlS	11/25/55	2	42.2	42.6	+0.4	13.9	12.5	-1.4	103	108	+5	343[a]	282	-61	357[a]	324	-33
Current Mill Average:					43.2	43.0	-0.2	14.2	12.8	-1.4	106	113	+7	340	306	-34	366	363	- 3

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

TABLE XXIX

MILL F--42-LB. LINERBOARD

166604	F-62	W.B.	10/14/55	-	40.7	40.8	+0.1	11.3	10.8	-0.5	109	107	-2	341[a]	369	+28	365[a]	409	+44
166605	F-63	W.B.	10/19/55	-	41.6	41.4	-0.2	12.0	11.5	-0.5	103	103	0	358[a]	393	+35	377[a]	408	+31
Current Mill Average:					41.2	41.1	-0.1	11.6	11.2	-0.4	106	105	-1	349	381	+32	371	409	+38

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

COMPARISON OF INSTITUTE AND MILL DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE XXX

MILL G--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
166584	G-186	W.F.	10/25/55	2	42.7	42.4	-0.3	12.2	12.1	-0.1	108	105	-3	329[a]	391	+62	396[a]	413	+17
166647	G-187	W.F.	10/26/55	2	43.7	42.9	-0.8	12.6	12.3	-0.3	111	109	-2	322[a]	379	+57	393[a]	400	+ 7
166649	G-188	W.F.	10/29/55	2	43.2	42.9	-0.3	12.4	12.3	-0.1	112	108	-4	342[a]	380	+38	393[a]	402	+ 9
166658	G-689	W.F.	10/31/55	2	42.4	42.6	-0.8	12.3	11.8	-0.5	108	107	-1	339[a]	379	+40	396[a]	436	+40
166659	G-690	W.F.	10/28/55	1	44.5	44.1	-0.4	13.1	12.5	-0.6	105	110	+5	362	405	+43	395[a]	436	+41
166724	G-691	W.F.	10/31/55	1	44.4	44.0	-0.4	13.0	12.6	-0.4	112	109	-3	341	405	+64	379[a]	437	+58
166750	G-692	W.F.	10/31/55	1	44.6	44.1	-0.5	13.2	12.5	-0.7	106	109	+3	354[a]	403	+49	387[a]	417	+30
Current Mill Average:					43.8	43.3	-0.5	12.7	12.3	-0.4	109	108	-1	341	392	+51	391	420	+29

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

COMPARISON OF INSTITUTE AND MILL DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE XXXI

MILL H--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
166585	H-529	W.F.[b]	10/21/55	2	42.5	43.7	+1.2	12.3	12.2	-0.1	107	107	0	363[a]	379	+16	388[a]	413	+25
166586	H-530	W.F.[b]	10/22/55	2	43.3	43.8	+0.5	12.3	12.1	-0.2	110	111	+1	381[a]	349	-32	404[a]	389	-15
166656	H-531	W.F.[b]	10/24/55	2	42.6	42.3	-0.3	12.2	12.1	-0.1	110	110	0	391[a]	335	-56	415[a]	357	-58
166657	H-532	W.F.[b]	10/25/55	2	42.8	43.4	+0.6	12.1	12.1	0.0	102	105	+3	367	340	-27	375[a]	368	- 7
166722	H-533	W.F.[b]	11/ 1/55	2	42.1	42.9	+0.8	11.9	11.9	0.0	112	111	-1	363[a]	353	-10	408[a]	389	-19
166723	H-534	W.F.[b]	11/ 2/55	2	42.1	43.1	+1.0	11.8	11.8	0.0	106	109	+3	382[a]	349	-33	413[a]	377	-36
166792	H-535	W.F.	11/ 7/55	2	43.3	43.8	+0.5	12.2	12.0	-0.2	107	105	-2	365[a]	353	-12	393[a]	379	-14
166793	H-536	W.F.	11/ 8/55	2	43.2	43.8	+0.6	12.4	12.2	-0.2	104	104	0	377[a]	350	-27	389[a]	382	- 7
Current Mill Average:					42.7	43.3	+0.6	12.1	12.0	-0.1	107	108	+1	374	351	-23	398	382	-16

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.
[b]The mill data sheet identifies the finish as WFlS.

Note: All "current mill average" data are calculated from the totals of the individual readings.

COMPARISON OF INSTITUTE AND MILL DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE XXXII

MILL I--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
166554	I-498	WF1S	10/24/55	1	42.6	42.6	0.0	12.1	12.2	+0.1	102	105	+3	316[a]	342	+26	361[a]	388	+27
166589	I-499	WF1S	10/25/55	1	43.2	42.6	-0.6	12.2	12.1	-0.1	105	106	+1	317[a]	311	- 6	351[a]	375	+24
166590	I-500	WF1S	10/26/55	1	43.1	42.5	-0.6	12.2	12.1	-0.1	106	105	-1	305	337	+32	360[a]	387	+27
166591	I-501	WF1S	10/27/55	1	43.1	42.7	-0.4	12.1	12.2	+0.1	106	106	0	308[a]	293	-15	353[a]	354	+ 1
166592	I-502	WF1S	10/27/55	1	43.2	42.6	-0.6	12.1	12.1	0.0	100	106	+6	297[a]	295	- 2	358[a]	359	+ 1
166798	I-503	WF1S	11/ 6/55	1	43.6	42.2	-1.4	11.9	11.7	-0.2	109	106	-3	330[a]	331	+ 1	371[a]	388	+17
166799	I-504	WF1S	11/ 7/55	1	43.1	42.7	-0.4	12.2	12.2	0.0	102	104	+2	309[a]	324	+15	359[a]	387	+28
166800	I-505	WF1S	11/ 8/55	1	43.5	42.8	-0.7	12.0	11.9	-0.1	106	106	0	325[a]	339	+14	368[a]	393	+25
166801	I-506	WF1S	11/10/55	1	43.4	42.7	-0.7	12.0	11.7	-0.3	109	106	-3	331[a]	328	- 3	364[a]	391	+27
166916	I-507	WF1S	11/11/55	1	43.5	42.7	-0.8	12.1	11.9	-0.2	111	106	-5	353[a]	326	-27	389[a]	385	- 4
166914	I-508	WF1S	11/16/55	1	42.9	42.6	-0.3	11.8	11.9	+0.1	103	109	+6	337[a]	335	- 2	366[a]	392	+26
Current Mill Average:					43.2	42.6	-0.6	12.1	12.0	-0.1	105	106	+1	321	324	+3	364	382	+18

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

COMPARISON OF INSTITUTE AND MILL DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE XXXIII

MILL J--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet: In			Elmendorf Tear, g./sheet: Across		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
166771	J-563	W.F.	10/31/55	-	42.0	41.2	-0.8	12.5	12.1	-0.4	116	105	-11	346[a]	303	-43	377[a]	355	-22
166772	J-564	D.F.	11/ 1/55	-	43.5	42.8	-0.7	12.8	12.5	-0.3	106	100	- 6	385[a]	354	-31	361[a]	379	+18
166885	J-565	W.F.	11/11/55	-	42.6	42.2	-0.4	12.8	12.1	-0.7	107	102	- 5	391	365	-26	369[a]	375	+ 6
166886	J-566	W.F.	11/11/55	-	43.2	43.0	-0.2	13.1	12.5	-0.6	108	108	0	375[a]	347	-28	387[a]	381	- 6
Current Mill Average:					42.8	42.3	-0.5	12.8	12.3	-0.5	109	104	- 5	374	342	-32	374	372	- 2

Note: All "current mill average" data are calculated from the totals of the individual readings.

TABLE XXXIV

MILL K--42-LB. LINERBOARD

166648	K-32	S.F.	10/28/55	7	43.4	43.0	-0.4	12.8	12.3	-0.5	103	104	+1	405[a]	382	-23	401[a]	418	+17
166770	K-33	S.F.	11/ 5/55	7	43.7	43.1	-0.6	13.0	12.9	-0.1	110	104	+4	372[a]	374	+ 2	389[a]	422	+33
166857	K-34	S.F.	11/ 8/55	7	45.1	44.7	-0.4	13.4	13.1	-0.3	107	111	+4	455[a]	418	-37	461[a]	457	- 4
166947	K-35	S.F.	11/23/55	7	45.0	44.3	-0.7	13.4	12.8	-0.6	99	104	+5	428[a]	397	-31	447[a]	430	-17
Current Mill Average:					44.3	43.8	-0.5	13.2	12.8	-0.4	102	106	+4	415	393	-22	424	432	+ 8

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

COMPARISON OF INSTITUTE AND MILL DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE XXXV

MILL L--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
166587	L-401		10/11/55	1	42.0	42.3	+0.3	13.2	13.2	0.0	111	111	0	332[a]	357	+25	373[a]	391	+18
166588	L-402		10/15/55	1	43.2	42.6	-0.6	12.3	12.1	-0.2	111	108	-3	327[a]	299	-28	367[a]	358	- 9
166794	L-403		10/19/55	1	42.0	41.9	-0.1	12.5	12.0	-0.5	110	105	-5	315[a]	338	+23	358[a]	385	+27
166795	L-404		10/21/55	1	43.7	42.3	-1.4	13.8	13.2	-0.6	111	109	-2	337[a]	291	-46	386[a]	368	-18
166796	L-405		10/25/55	1	43.6	42.5	-1.1	13.3	13.2	-0.1	112	105	-7	361[a]	298	-63	393[a]	353	-40
166797	L-406		10/26/55	1	43.6	42.8	-0.8	13.2	12.7	-0.5	117	111	-6	356[a]	302	-54	382[a]	345	-37
166901	L-407		11/ 1/55	1	43.0	42.3	-0.7	12.4	12.5	+0.1	112	109	-3	351[a]	320	-31	385[a]	376	- 9
166902	L-408		11/ 5/55	1	43.5	42.5	-1.0	13.9	13.0	-0.9	105	107	+2	335[a]	331	- 4	379[a]	390	+11
Current Mill Average:					43.1	42.4	-0.7	13.1	12.7	-0.4	111	108	-3	339	317	-22	378	371	- 7

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

COMPARISON OF INSTITUTE AND MILL DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE XXXVI

MILL M--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
166553	M-346	W.	10/19/55	4	43.3	43.0	-0.3	12.9	12.5	-0.4	108	106	-2	352[a]	393	+41	379[a]	375	- 4
166633	M-347	W.	10/26/55	4	43.0	42.8	-0.2	13.0	12.5	-0.5	110	108	-2	378[a]	389	+11	394[a]	379	-15
166634	M-348	W.	10/27/55	4	42.8	42.4	-0.4	13.1	12.7	-0.4	109	109	0	385[a]	369	-16	385[a]	382	- 3
166855	M-349	W.	11/ 2/55	4	44.3	43.8	-0.5	13.8	13.3	-0.5	104	108	+4	393[a]	389	- 4	407[a]	397	-10
166856	M-350	W.	11/10/55	4	44.0	43.6	-0.4	14.1	13.3	-0.8	103	108	+5	419[a]	438	+19	426[a]	441	+15
166950	M-351	W.	11/12/55	2	42.6	42.4	-0.2	13.8	13.1	-0.7	106	103	-3	384	373	-11	411[a]	349	-62
Current Mill Average:					43.3	43.0	-0.3	13.5	12.9	-0.6	107	107	0	385	392	+ 7	400	387	-13

Note: All "current mill average" data are calculated from the totals of the individual readings.

TABLE XXXVII

MILL N--42-LB. LINERBOARD

166606	N-166	WF1S	10/22/55	1	42.4	42.3	-0.1	12.3	12.0	-0.3	111	114	+3	363	356	- 7	390[a]	454	+ 64
166607	N-167	WF1S	10/22/55	1	42.4	41.9	-0.5	12.2	12.0	-0.2	112	111	-1	333[a]	378	+45	393[a]	445	+ 52
166608	N-168	WF1S	10/17/55	1	42.4	42.5	+0.1	12.5	12.2	-0.3	104	103	-1	395[a]	430	+35	385[a]	486	+101
166655	N-169	WF1S	10/31/55	1	41.9	41.6	-0.3	11.3	11.3	0.0	102	104	+2	339[a]	379	+40	377[a]	447	+ 70
166775	N-170	WF1S	11/ 1/55	1	42.6	42.2	-0.4	11.8	11.6	-0.2	110	111	+1	359[a]	403	+44	375[a]	408	+ 33
Current Mill Average:					42.3	42.1	-0.2	12.0	11.8	-0.2	108	109	+1	358	389	+31	384	448	+ 64

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

COMPARISON OF INSTITUTE AND MILL DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE XXXVIII

MILL O--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
166548	O-93	W.F.	9/26/55	4	42.2	42.3	+0.1	11.0	10.9	-0.1	109	111	+2	365[a]	329	-36	385[a]	367	-18
166549	O-94	W.F.	10/ 4/55	4	42.2	42.5	+0.3	11.6	11.3	-0.3	108	106	-2	360[a]	332	-28	387[a]	361	-26
166550	O-95	W.F.	10/11/55	4	42.8	43.2	+0.4	11.6	11.5	-0.1	107	110	+3	395[a]	363	-32	359[a]	355	- 4
166551	O-96	W.F.	10/12/55	4	42.2	42.4	+0.2	11.9	11.6	-0.3	112	118	+6	375[a]	343	-32	393[a]	381	-12
166552	O-97	W.F.	10/26/55	4	42.7	42.5	-0.2	11.6	11.3	-0.3	118	119	+1	342[a]	340	- 2	385[a]	405	+20
166948	O-98	W.F.	11/ 5/55	4	42.4	42.8	+0.4	11.9	11.8	-0.1	98	103	+5	347[a]	317	-30	368[a]	368	0
166949	O-99	W.F.	11/ 5/55	4	43.3	43.4	+0.1	12.2	12.0	-0.2	101	102	+1	361[a]	324	-37	375[a]	399	+24
Current Mill Average:					42.5	42.7	+0.2	11.7	11.5	-0.2	108	110	+2	364	335	-29	379	377	- 2

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

COMPARISON OF INSTITUTE AND MILL DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE XXXIX

MILL P--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
166858	P-113	W.F.	10/27/55	-	42.3	42.0	-0.3	11.8	11.3	-0.5	99	99	0	369[a]	397	+28	378[a]	425	+47
166859	P-114	W.F.	10/28/55	-	43.0	43.1	+0.1	12.2	11.5	-0.7	110	105	-5	387[a]	403	+16	395[a]	445	+50
166860	P-115	W.F.	10/28/55	-	42.7	42.4	-0.3	12.1	11.5	-0.6	108	104	-4	371[a]	357	-14	397[a]	387	-10
166861	P-116	W.F.	10/28/55	-	43.5	42.4	-1.1	12.3	11.5	-0.8	109	111	+2	359[a]	367	+ 8	389[a]	391	+ 2
166862	P-117	W.F.	10/31/55	-	44.4	43.9	-0.5	12.9	12.1	-0.8	112	103	-9	361[a]	416	+55	415[a]	433	+18
166863	P-118	W.F.	10/31/55	-	45.4	45.1	-0.3	13.0	12.4	-0.6	112	108	-4	391[a]	433	+42	427[a]	437	+10
166864	P-119	W.F.	11/ 3/55	-	41.7	41.6	-0.1	11.4	11.2	-0.2	112	107	-5	336[a]	349	+13	373[a]	377	+ 4
166877	P-120	W.F.	11/10/55	-	41.7	41.0	-0.7	11.5	11.0	-0.5	107	105	-2	347[a]	364	+17	372[a]	333	-39
166878	P-121	W.F.	11/10/55	-	40.9	40.3	-0.6	11.4	10.8	-0.6	108	101	-7	335	348	+13	361[a]	331	-30
166879	P-122	W.F.	11/10/55	-	41.3	40.7	-0.6	11.4	10.9	-0.5	105	101	-4	339	363	+24	361[a]	373	+12
166880	P-123	W.F.	11/11/55	-	44.5	44.6	+0.1	11.8	11.4	-0.4	115	108	-7	373[a]	395	+22	393[a]	399	+ 6
166881	P-124	W.F.	11/12/55	-	43.1	42.4	-0.7	12.1	11.7	-0.4	107	105	-2	360[a]	393	+33	402[a]	381	-21
166882	P-125	W.F.	11/14/55	-	41.4	40.8	-0.6	11.5	11.0	-0.5	111	108	-3	359[a]	385	+26	391[a]	364	-27
166883	P-126	W.B.	11/14/55	-	43.2	42.7	-0.5	11.9	11.5	-0.4	112	110	-2	365[a]	417	+52	392[a]	387	- 5
166884	P-127	W.B.	11/14/55	-	44.5	44.0	-0.5	12.4	11.9	-0.5	108	108	0	361[a]	416	+55	405[a]	400	- 5
Current Mill Average:					42.9	42.5	-0.4	12.0	11.5	-0.5	109	106	-3	361	387	+26	390	391	+ 1

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

COMPARISON OF INSTITUTE AND MILL DATA--NOVEMBER 1 THROUGH NOVEMBER 30, 1955 (continued)

TABLE XXXX

MILL Q--42-LB. LINERBOARD

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
166769	Q-42	WFLS	10/30/55	3	43.2	41.3	-1.9	13.9	13.2	-0.7	102	109	+7	344[a]	348	+4	360[a]	386	+26
166911	Q-43	WFLS	11/ 8/55	3	42.8	42.1	-0.7	13.8	13.2	-0.6	98	101	+3	327[a]	325	-2	369[a]	375	+ 6
166951	Q-44	WFLS	11/17/55	3	40.8	39.7	-1.1	13.5	12.9	-0.6	101	100	-1	322	320	-2	359[a]	372	+13
Current Mill Average:					42.3	41.0	-1.3	13.7	13.1	-0.6	100	104	+4	331	331	0	363	377	+14

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

TABLE XLI

MILL E--MISCELLANEOUS

26-lb. Linerboard																			
166945	E-185	W.F.	11/18/55	2	27.3	26.8	-0.5	8.8	8.2	-0.6	65	64	-1	250[a]	194	-56	227[a]	197	-30
38-lb. Linerboard																			
166751	E-183	WFLS	11/ 8/55	2	37.7	38.2	+0.5	11.8	11.2	-0.6	96	98	+2	297[a]	286	-11	312[a]	346	+34

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.